

In the Afr



Oxford Read and Discover

Animals In the Air

Robert Quinn

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Introduction

We see lots of animals in the air. Many of them have wings and can fly, like birds, butterflies, and bats. Other animals can jump into the air, like frogs and kangaroos.











What animals can you see here? Which animals can fly? Which animals can jump?

Now read and discover more about animals in the air!



Many animals fly because it helps them to stay safe, and they can move around fast to find food. For example, bees fly to collect nectar from flowers. Then they use the nectar to make honey.

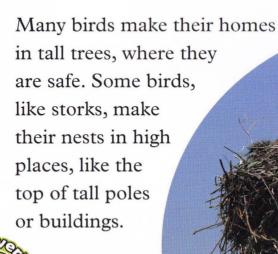
An Owl Hunting a Mouse

Some animals fly to hunt other animals, so that they can eat them.

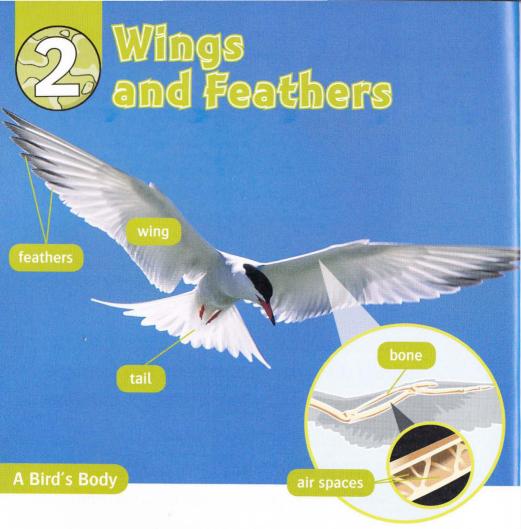
For example, owls fly to hunt smaller animals, like mice.



Some animals fly to stay safe from other animals that want to eat them. For example, small birds fly to escape from cats and dogs.



Some storks make very big nests. The nests can be 2 meters across.



Birds have many small feathers on their body. The feathers keep birds warm and dry. Most birds also have longer feathers on their wings and tail. These are called flight feathers because they help birds to fly. Birds have very thin bones with air spaces inside. The bones are very light, so it's easy for birds to fly.





Some birds have very big wings. The Andean condor is one of the biggest flying birds in the world. It can have a wingspan of 3 meters.

Other flying birds are small, with short wings. Some hummingbirds have a wingspan of only 6 centimeters.

The biggest flying bird was the Giant Teratorn. It lived about six million years ago and it had a wingspan of up to 7 meters!





Amazing fliers



A Peregrine Falcon Diving

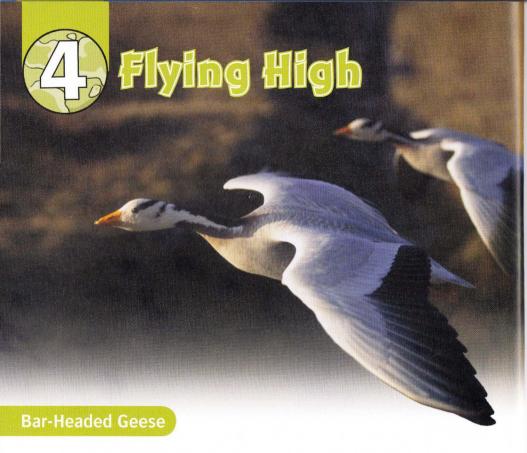
Most birds can fly, and some of them are amazing fliers! The fastest bird in the world is the peregrine falcon. When it's diving straight down, a peregrine falcon can fly at more than 200 kilometers per hour!

Swallows are really amazing fliers. They hunt insects in the air, so they need to dive and turn very fast. It's fun to watch swallows in the evening, when there are lots of insects flying around.



Some birds make amazing journeys to find food, or to travel to a place to have their babies. Bar-tailed godwits fly all the way from New Zealand to Alaska – that's about 16,500 kilometers! The journey only takes about one week, with a short stop in China to rest and eat.

Swifts are small birds that spend most of the time flying. They can even sleep in the air!



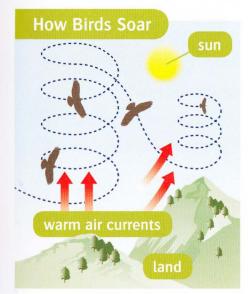
Some birds, like bar-headed geese, fly very high. Bar-headed geese can fly over the highest mountains in the world – the Himalayas. Some of these mountains are more than 8,000 meters high.

Ruppell's vultures can fly at more than 11,000 meters high. That's higher than many planes!





Some birds, like vultures, condors, and eagles, don't move their wings a lot when they are flying high. They soar on warm air currents that are moving around. Birds that can soar have long, wide wings.



It's easier for birds to soar when it's sunny.
The sun makes the land warm. Then the land makes the air warm, and warm air currents go up. Birds go up on the air currents, and they soar in circles, high in the air.

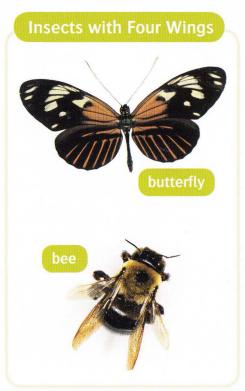


Insects That Fly

The first flying animals in the world were insects. They lived about 350 million years ago! Today, most insects have wings and can fly. Their wings grow from their thorax – the middle part of their body.

Many insects, like bees and butterflies, have four wings. Some insects, like flies and mosquitoes, only have two wings.







Some of the biggest flying insects today are atlas moths, from Southeast Asia. These moths have a wingspan of about 30 centimeters.

Some of the fastest flying insects in the world are dragonflies. Green darner dragonflies can fly at more than 50 kilometers per hour.

The biggest flying insects were Meganeura dragonflies. They lived about 300 million years ago and had a wingspan of about 70 centimeters!





Flying Together

Many birds fly together in big groups called flocks. Some small birds fly in flocks to stay safe from hunting birds, like eagles and falcons. Other birds, like ducks and geese, fly in flocks when they move to a new place.

Starlings are small birds that usually fly in small flocks. These flocks sometimes join together to make big flocks with thousands of starlings. They look like dark clouds!

A Flock of Starlings





Some flying insects, like bees, moths, and locusts, fly in big groups called swarms. Sometimes there are millions of insects all together! When locusts are very hungry, they eat all the green plants that they find. Swarming locusts are a big problem for farmers.

Bees only fly in swarms when they are moving to a new home. Special scout bees show the swarm where to go.





Some minibeasts, like grasshoppers, can jump really well. Grasshoppers are good jumpers because they have strong back legs. They can jump 20 times their body length.

Fleas are minibeasts that live in the hair of many animals, like dogs and cats. Fleas can't fly, but they can jump about 100 times their body length! That's how fleas move from one animal to another.



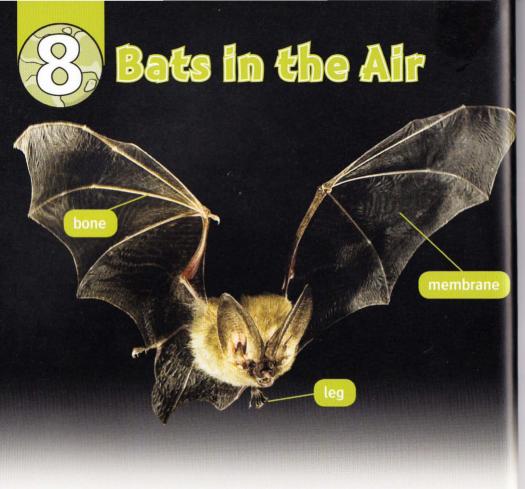




All spiders can make silk. Many spiders make silk webs to catch insects. Jumping spiders don't make webs – they wait for insects and then they jump on them. They jump from a silk thread. These spiders can jump about 80 times their body length.

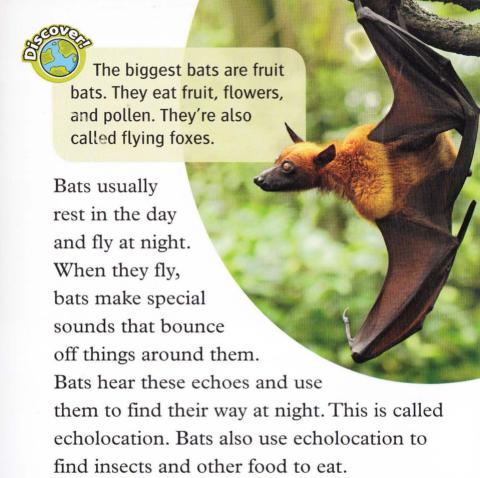
Springtails are minibeasts with a special tail that works like a spring. Springtails don't have wings, so they use their tail to push themselves into the air!





Did you know that bats are the only mammals that have wings and can fly? Their wings have long, thin bones that look like fingers. There's a membrane of skin between the bones.

Many bats have a membrane between their legs, too. Some bats use this membrane as a net to catch insects in the air.



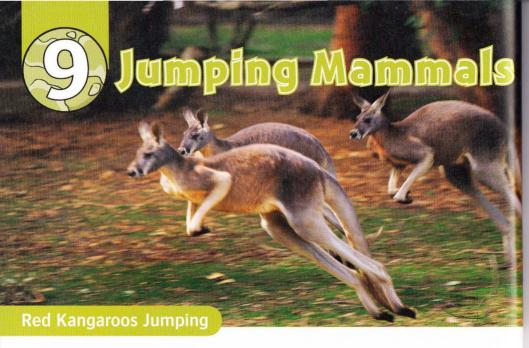
How Echolocation Works

sound from bat

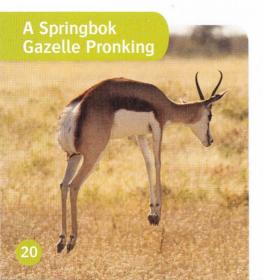
echo from insect

insect

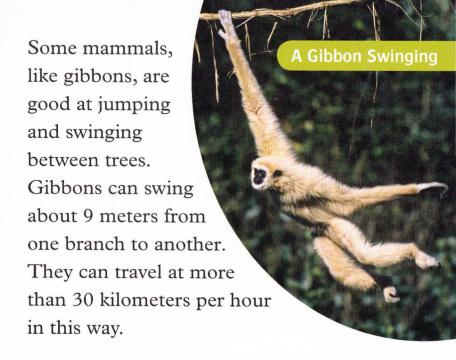
Go to pages 38–39 for activities.

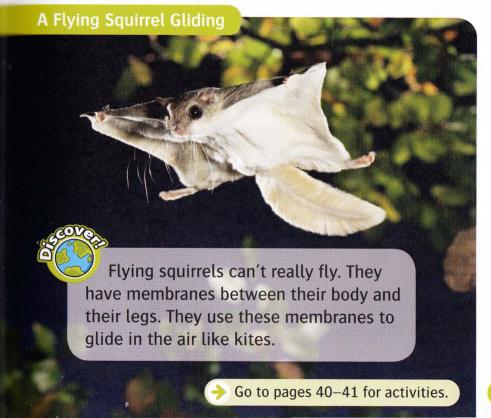


Some mammals are excellent jumpers. This helps them to stay safe from people and other animals. Red kangaroos can jump over fences that are 3 meters high. They are also fast – they can jump at more than 50 kilometers per hour!



Springbok gazelles can jump very far. They can travel more than 15 meters in one jump! Springbok gazelles can also jump straight up in the air. This is called pronking.







Amphibians can't fly, but some of them can glide in the air. Gliding leaf frogs have membranes between their fingers and toes. They can use these membranes to glide.

Some reptiles can glide, too. Paradise tree snakes make their body very wide and flat, and they can glide about 100 meters through the air!





We sometimes see fish in the air, too! Flying fish can jump out of the water and glide for hundreds of meters. Flying fish have big fins that look like wings.

Lots of animals can move around by flying, jumping, and gliding. Look around you today. Do you see any animals in the air?

1 Animals That Fly

← Read pages 4–5.

Match. Then write the sentences.

1 Animals that fly can move around fast.

Animals that fly— Flying helps some Some flying birds Some birds fly live in high places. can move around fast. to hunt other animals. animals to stay safe.

2		
3		
4		
C	mplete the sentences.	
	nake collect find escape hunt	
1	Many animals fly to <u>find</u> food.	
2	Bees fly to nectar from flowers.	
3	Storks their nests in high places.	
4	Small birds fly to from cats and dogs	•
5	Owls fly to other animals.	

3	W	rite true or false.	
	1	Mice fly to find food.	false
	2	Bees use nectar to make honey.	
	3	Birds fly to escape from other animals.	
	4	Owls fly to escape from mice.	
	5	Storks make very small nests.	
	6	Storks make nests in high places.	
	Aı	nswer the questions.	
	1	What does flying help animals to do?	
		It helps them to stay safe.	
	2	Where do bees find nectar?	
	3	What animals do owls hunt?	
	4	Where do many birds make their homes?	17±
	5	How big can a stork's nest be?	
	6	Where do storks make their nests?	

2 Wings and Feathers

- ← Read pages 6–7.
- Write the words.

air spaces bone feather wingspan tail wing



1 feather



2



3



4



5 _____



6 _____

2 Circle the correct words.

- 1 Birds have many feathers / wings.
- 2 Feathers keep a bird's body cold / warm.
- 3 Birds have very thin, light / heavy bones.
- 4 The Andean condor is a small / big bird.
- 5 The Giant Teratorn was / wasn't a flying bird.

3 Answer the questions.

- 1 What do flight feathers do?
- 2 What wingspan can an Andean condor have?
- 3 What wingspan can a hummingbird have?
- 4 What wingspan did the Giant Teratorn have?
- 5 When did the Giant Teratorn live?

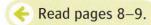
4 Find and write the words.

f	a	h	t	a	i	l	С	W
е	W	W	0	n	Х	t	g	i
a	r	i	b	t	S	k	b	n
t	k	n	Z	0	r	n	0	g
h	b	g	0	С	d	j	n	S
е	S	С	i	h	V	a	е	р
r	a	d	q	n	d	р	S	a
S	n	j	l	i	g	h	t	n
d	r	у	g	е	b	0	d	у

- 1 feathers
- 2 <u>b</u>
- 3
- 4 b
- 5 <u>d</u>
- 6
- 7 w
- 8 W

3

Amazing Fliers



1 Match.



bar-tailed godwit

peregrine falcon

swallow

swift

2 Which bird is it? Use words from activity 1.

1 It flies from New Zealand to Alaska.

It's the bar-tailed godwit.

- 2 It can sleep when it's flying.
- 3 It dives and turns to hunt insects.
- 4 It's the fastest bird in the world.

3 Find and write the	words.	•
----------------------	--------	---

Towatchsstopneedpsleepturns	pendyr
2 geedpslee	" esttdiven
Watchsstop	

1	watch	_ 5	
2		_ 6	
3		7	
4		8	

- 4 Answer the questions.
 - 1 How many kilometers can bar-tailed godwits fly?
 - 2 How fast can peregrine falcons fly when they dive?
 - 3 Which birds hunt insects in the air?
 - 4 Which birds spend most of their time flying?

4 Flying High

← Read pages 10–11.

Write the sentences in order.

The birds soar high in the air.

Warm air currents go up.

The land makes the air warm.

The sun makes the land warm.

Birds go up on the air currents.



2 Circle the odd one out.

- 1 high warm sun long
- 2 geese vultures eagles mountains
- 3 currents fly soar move

3	0	rder the words. Then write <i>true</i> or <i>false</i> .
	1	mountains. / geese / fly / Bar-headed / can't / over
		Bar-headed geese can't fly over mountains. false
	2	higher / Some / than / planes. / vultures / fly
	3	can / currents. / Eagles / soar / air / on / warm
	4	wings. / don't / very / Condors / have / wide
	5	mountains. / are / The / high / Himalayas / very
4	A	nswer the questions.
	1	Which bird can fly at 11,000 meters high?
	2	When is it easier for birds to soar?
	3	What do an eagle's wings look like?
	4	Which birds can fly over the Himalayas?

5 Insects That Fly

← Read pages 12–13.

1 Write the words.

bee butterfly dragonfly mosquito fly moth







1 _____

2 _____









4 _____

5 _____

6 _____

2 Write two or four.

1 Dragonflies have <u>four</u> wings.

2 Mosquitoes have _____ wings.

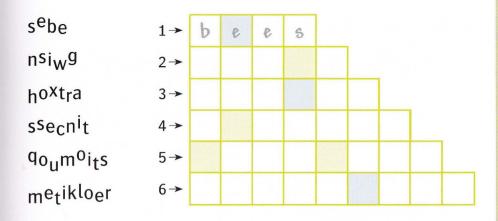
3 Bees have _____ wings.

4 Butterflies have _____ wings.

5 Flies have _____ wings.

3 Circle the correct numbers.

- 1 The biggest flying insects lived about 300 / 350 million years ago.
- 2 Green darner dragonflies can fly at more than 15 / 50 kilometers per hour.
- 3 The first flying insects lived about 250 / 350 million years ago.
- 4 Atlas moths have a wingspan that can be 30 / 50 centimeters.
- 5 Meganeura dragonflies had a wingspan that was about **50** / **70** centimeters.
- 4 Order the letters and write the words. Write the secret word.



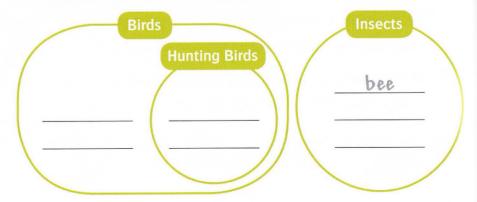
The secret word is:

6 Flying Together

← Read pages 14–15.

Complete the diagram.

bee duck eagle falcon locust moth starling



2 Complete the sentences.

famers fly hunting insect swarms

- 1 Some birds _____ in groups called flocks.
- 2 Eagles and falcons are _____ birds.
- 3 Locusts are a type of flying _____.
- 4 Swarming locusts are a big problem for _____
- 5 Bees sometimes fly together in ______.

Fi	nd and write the words.			
o u	Poijoinadarkeswarmerplants >			
1	5			
2	6			
3	7			
4	8			
Aı	nswer the questions.			
1 When do ducks fly together in flocks?				
2 What do big flocks of starlings look like?				
3	When do bees fly in swarms?			
4	What do hungry locusts eat?			
	1 2 3 4 Aı 1 2			

7 Jumping Minibeasts

← Read pages 16–17.

1 Find and write the words.

Х	S	р	r	İ	n	g	t	a	i	l
m	i	n	i	b	е	a	S	t	n	S
t	р	b	z	l	е	g	j	l	S	р
a	n	f	t	W	q	S	i	j	е	i
İ	X	l	d	е	е	a	W	g	С	d
S	p	е	h	b	S	S	k	d	t	e
g	r	a	S	S	h	0	р	p	е	r

1	W		
	19.74		

2 Write true or false.

- 1 Grasshoppers live on dogs and cats.
- 2 Fleas aren't very good jumpers.
- 3 Jumping spiders usually make webs.
- 4 Springtails have a tail like a spring.
- 5 Jumping spiders can jump 80 meters.

3 Complete the sentences.

catch insects body length on insects back legs into the air other animals

1	Grasshoppers have strong
2	Fleas live in the hair of
3	Many spiders make silk webs to
4	Jumping spiders wait to jump
5	Springtails push themselves
6	Fleas can jump 100 times their
A	nswer the questions.
1	How far can a grasshopper jump?
2	What animals do jumping spiders jump on?
3	How do fleas move from one animal to another?
4	What do springtails use to push themselves into the air?

8 Bats in the Air

- ← Read pages 18–19.
- 1 Write the words.

leg insect echo membrane sound wing



- 1 _____
- 4
- 2
- 5
- 3
- 6 _____
- Write true or false.
 - 1 Bats are a type of mammal.

2 Flying foxes are not bats.

3 Bats usually fly at night.

- 4 All bats eat fruit.
- 5 Bats use echoes to find things.

3 Match. Then write the sentences.

Bats usually
Bats make sounds that
Bats use echolocation
Bats have wings
Bats are the only

mammals that can fly.
with long, thin bones.
rest in the day.
to find their way at night.
bounce off things.

T	
2	
3	
4	
5	
A	nswer the questions.
1	What are fruit bats also called?
2	What do bats use to find their way at night?
3	What do bats have between their bones?
4	What do flying foxes eat?

9 Jumping Mammals

← Read pages 20–21.

Write the words.

kangaroo gibbon springbok gazelle flying squirrel



1



2



3 _____



4

2 Complete the sentences.

- 1 Red kangaroos can _____ over high fences. (mj_pu)
- 2 Springbok gazelles can _____ 15 meters in one jump. ($l_{V_r}ta_e$)
- 3 Gibbons can ______ 9 meters between trees. (iWsqn)
- 4 Flying squirrels can _____ like kites. (egild)
- 5 Springbok gazelles can also ______. (nokrp)

- 3 Answer the questions.
 - 1 How high can red kangaroos jump?
 - 2 What are gibbons good at doing?
 - 3 How fast can gibbons travel between trees?
 - 4 What do flying squirrels have between their body and their legs?
- 4 Find and write the words.



kiteammammalalhigh enfencerbranch

- 1 ______ 6 ____
- 2 ____ 7 ___
- 3 _____ 8 ____
- 4 _____ 9 ____
- 5 10

10 Frogs, Snakes, and Fish

← Read pages 22–23.

1 Complete the sentences.

air can fish hundreds membranes meters snakes toes glide leaf wide wings

T	Guding irogs have membranes			
	between their fingers ar	nd They use		
	these to	in the air.		
2	Paradise tree	can glide about		
	100 throug	h the		
	They make their body _	and flat.		
3	Flying have	e big fins that look like		
	. They	glide in the		

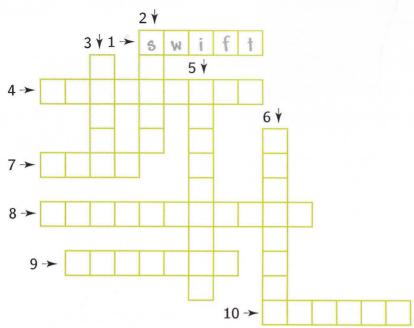
2 Circle the odd one out.

1 wide membranes flat big

air for _____ of meters.

- 2 meters snakes frogs fish
- 3 jump glide fly body
- 4 toes fins reptiles wings

3 Complete the puzzle.



- 1 It sleeps in the air.
- 2 It makes big nests.
- 3 It's a bird that soars.
- 4 It's a very fast insect.
- 5 It's a type of bat.

- 6 It flies in big flocks.
- 7 It's a jumping minibeast.
- 8 It's a very small bird.
- 9 It hunts insects in the evening.
- 10 It's a mammal that swings between trees.

4 Answer the questions.

- 1 What's your favorite flying animal?
- 2 What's your favorite jumping animal?
- 3 What's your favorite gliding animal?



1 Think of some animals that you can see in the air where you live. Write the names

on the diagram.

Animals that glide:

Animals that fly:

Animals where I live:

Animals that jump:

- Find or draw pictures of the animals. Make a poster and label the animals.
- 3 Display your poster.



Choose an animal that travels in the air.
 Write notes.



Is it a bird, an insect, or another type of animal?

Does it fly, jump, or glide in the air?

What does its body look like?

What is special about the animal?

- Write sentences about the animal and add pictures.
- 3 Display your report.

Picture Dictionary



amphibians



body length



bone



branch



dark



dry



farmer



feather



fence



fin



flat



food



fruits



hair



honey



hunt



insects



land



mammals



mice



million



mountains



nectar



nest



net



plants



pole



pollen



push



reptiles



rest



silk



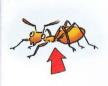
skin



spring



tail



thorax



warm



web



wing



wingspan



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Subject Area Level	The World of Science & Technology	The Natural World	The World of Arts & Social Studies
600 headwords	How We Make ProductsSound and MusicSuper StructuresYour Five Senses	Amazing MinibeastsAnimals in the AirLife in RainforestsWonderful Water	 Festivals Around the World Free Time Around the World
750 headwords	All About PlantsHow to Stay HealthyMachines Then and NowWhy We Recycle	All About Desert LifeAll About Ocean LifeAnimals at NightIncredible Earth	Animals in ArtWonders of the Past
900 headwords	 Materials to Products Medicine Then and Now Transportation Then and Now Wild Weather 	 All About Islands Animal Life Cycles Exploring Our World Great Migrations 	Homes Around the WorldOur World in Art
1,050 headwords	Cells and MicrobesClothes Then and NowIncredible EnergyYour Amazing Body	All About SpaceCaring for Our PlanetEarth Then and NowWonderful Ecosystems	Helping Around the World Food Around the World

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Animals In the Air

Robert Quinn

Read and discover all about animals in the air ...

- · What is the fastest bird in the world?
- · What are flying foxes?

Read and discover more about the world! This series of non-fiction readers provides interesting and educational content, with activities and project work.

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Level 3
600 headwords



Level 4
750 headwords



Level 5



Level 6
1.050 headwords

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